MIDMARK®

Installation Instructions

002-0692-00 Back Potentiometer Sensor Kit for Midmark Dental Chair

KIT COMPONENTS

Part Number	Description	Qty.
002-0692-00	Back Potentiometer Sensor Kit	
• 029-2736-00	Potentiometer Assembly	1
• 029-2738-00	Gear Rack Assembly	1
• 015-0013-01	Cable Tie	1
• 003-1246-00	Wiring Diagram (115 VAC)	1
• 003-1247-00	Wiring Diagram (230 VAC)	1
• 003-1243-00	Installation Instructions	1

REQUIRED TOOLS

Phillips Screwdriver
Straight Blade Screwdriver

REMOVAL (1)

WARNING

After lowering back section, unplug chair before continuing work. Failure to comply could result in personal injury or equipment damage.

NOTE

Lower Back section to its *mechanical stop* by depressing and holding the ***Program*** button on touch pad or foot switch, while pressing ***Back Down*** button.

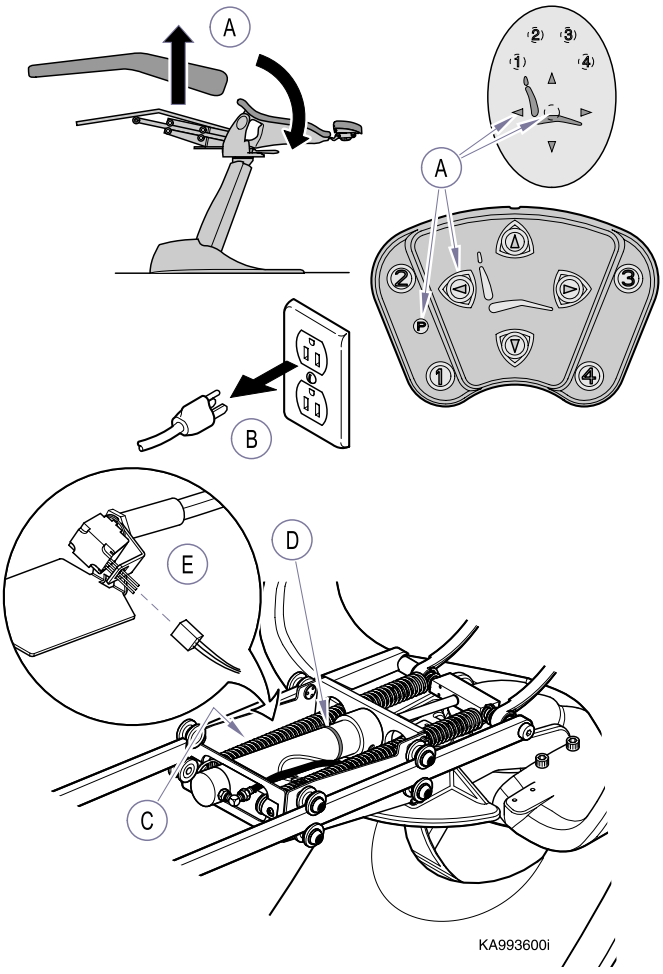
A. Remove seat cushion and depress and hold Program button and Back Down button to lower Back section all the way down to its *mechanical stop* position.

B. Unplug Chair from outlet

C. Disconnect right hand (patient's) lift spring.

D. Cut wire tie that secures hydraulic hoses and wire harness to hydraulic cylinder.

E. Unplug wire harness from back potentiometer.



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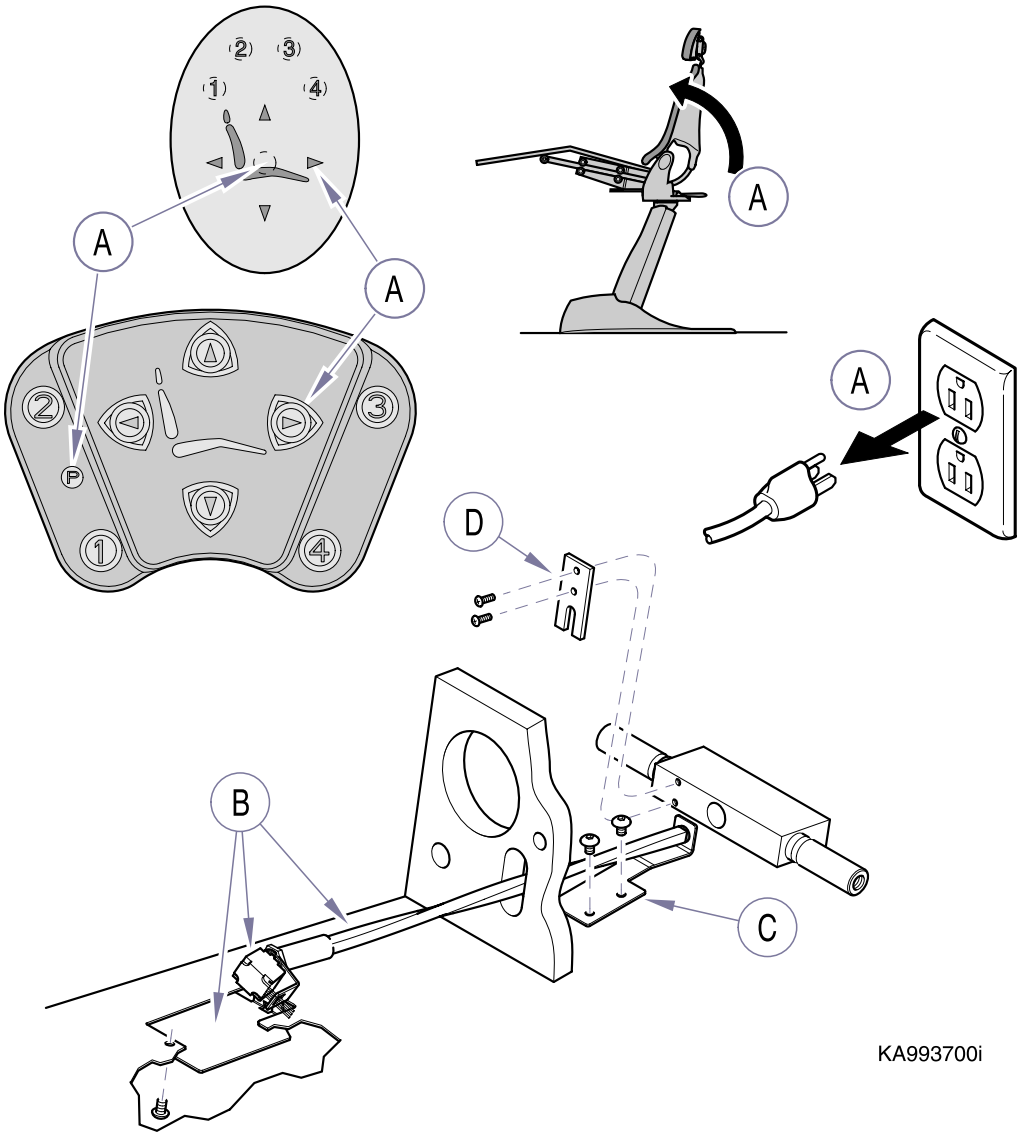
REMOVAL (2)



WARNING

Plug chair power cord into electrical outlet and raise Back UP, then unplug chair before continuing working on chair.

NOTE

Raise Back section to its *mechanical stop* by depressing and holding the ***Program*** button on touch pad or foot switch, while pressing ***Back Up*** button.

A. Raise Back section *Up* to its *mechanical stop*, then unplug chair.

B. Remove back sensor bracket along with potentiometer, and sensor shaft.

C. Remove outboard bracket.

D. Remove sensor dog.

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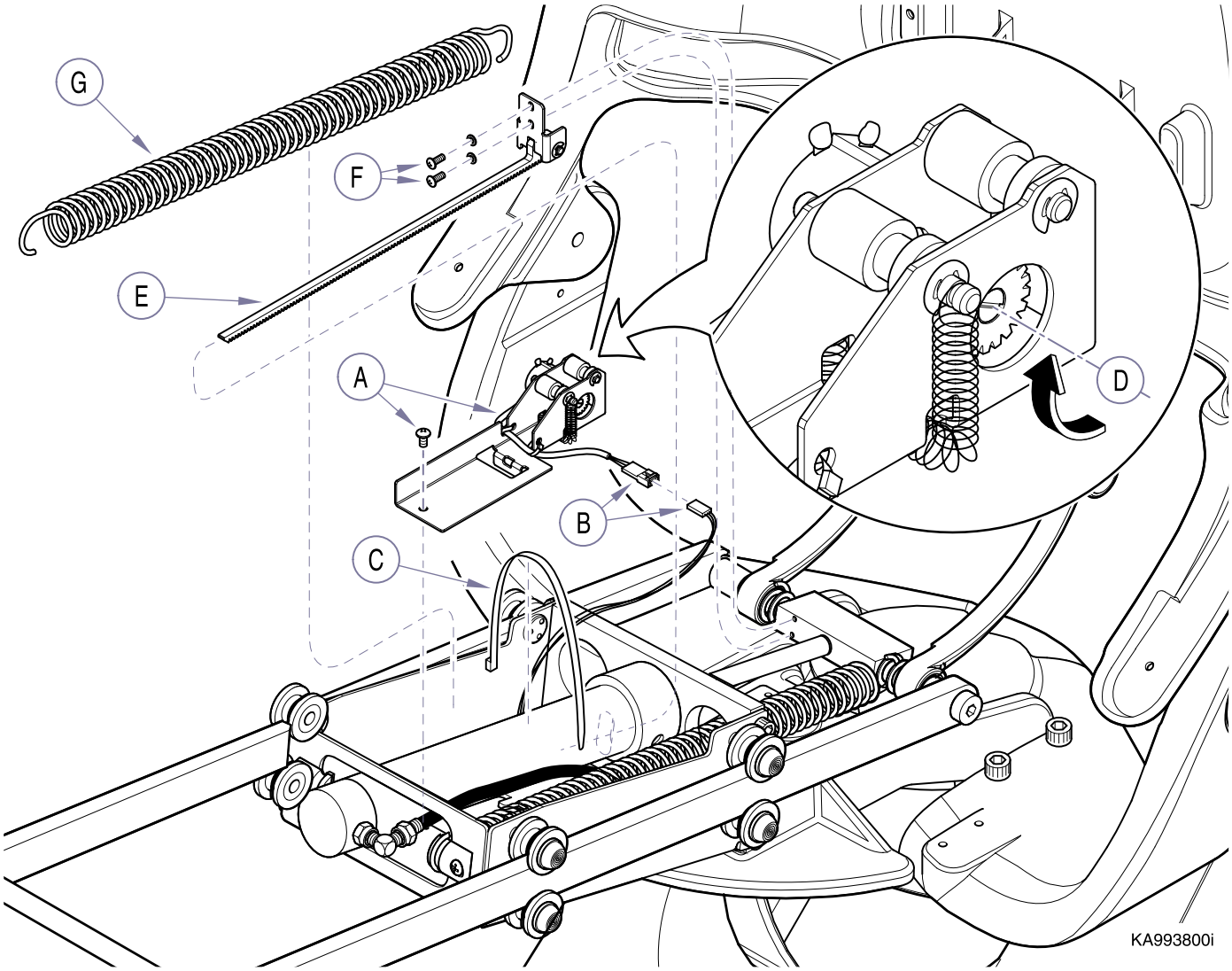
INSTALLATION



A. Place potentiometer assembly in position and secure with screw.

B. Connect chair wire harness to potentiometer wire harness.

C. Secure hydraulic hoses and wire harness to seat cylinder using supplied wire tie.

D. Rotate potentiometer spur gear *(see arrow)* until it stops at end of travel.

NOTE

Assure Chair Back is positioned all the way *Up*, to *mechanical stop* position, before inserting gear rack. When gear rack is inserted potentiometer will be adjusted to correct travel.

E. Insert gear rack through access hole of face plate on hydro-glide assembly, engaging gears on rack with spur gear on potentionmeter assembly.

F. Secure gear rack to yoke block.

G. Connect right hand (patient's) lift spring.

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CALIBRATION

NOTE

The chair must be Calibrated after completing installation. Before calibrating, record positions of SW1 switch settings to assure they are returned to original positions.

A. Remove hydraulic cover and record SW1 switch settings.

B. Set both switches on SW1 to ON position.

C. Plug in chair, then press the Calibration button.

NOTE

Chair automatically completes two cycles during Calibration.

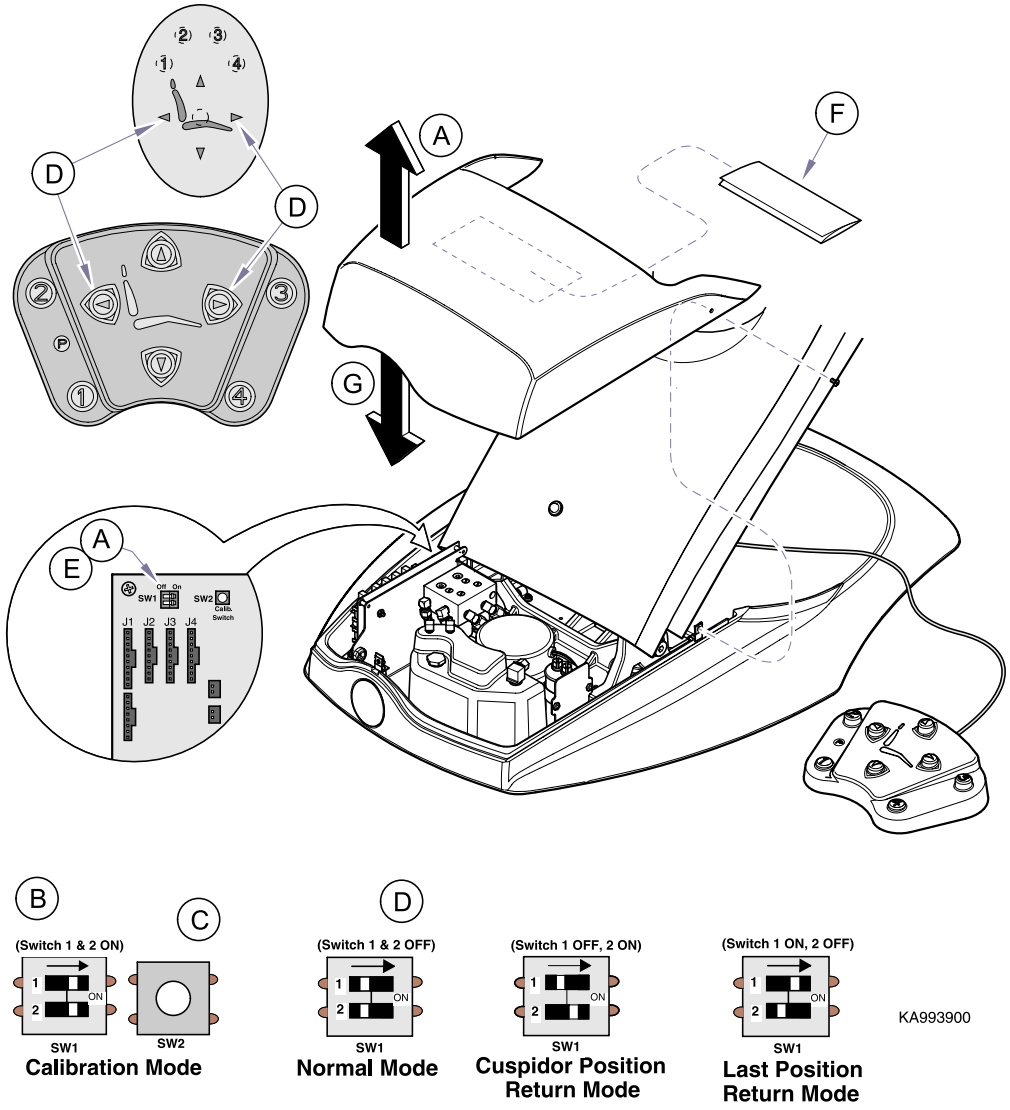
First Cycle finds extreme end of travel of sensor settings.

Second Cycle checks to assure settings have been stored and can be recalled by software.

D. Place SW1 switches to OFF position and check BACK UP and BACK DOWN positions using directional buttons on foot or membrane switch.

NOTE

BACK UP and DOWN positions should almost reach maximum travel. If necessary, readjust potentiometer.



E. Place SW1 switches back to original positions for desired operation. If necessary, refer to illustration for additional settings or to Switch Settings in Section V of Service and Parts Manual for variations in settings and related operation.

F. Remove the schematic from the pouch attached to the inside of the hydraulic cover and insert the new schematic that is suitable (115 or 230 VAC) to the chair electrical specifications.

G. Install hydraulic cover and cushion.

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